

Mineral Industry Surveys

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MOLYBDENUM IN JUNE 2002

Domestic production of molybdenum in concentrate in June 2002 was about 11% more than that of the previous month and was 22% less than that of June 2001, according to the U.S. Geological Survey. Producer stocks of molybdenum in concentrate, oxide, and other product forms were 9,740 metric tons at the beginning of 2002, and 5,990 metric tons at the end

of June.

Included in this Mineral Industry Surveys are U.S. production and shipments of molybdenum concentrates and materials, plus U.S. consumption, by end use, and stocks, of molybdenum material in May and June 2002; also included are trade data for April and May 2002.

TABLE 1
U.S. SALIENT MOLYBDENUM CONCENTRATE STATISTICS 1/

(Metric tons, contained molybdenum)

	2001	2002		Year to date
	January-December p/	May r/	June	
Production	37,600	2,410	2,670	14,800
Shipments: 2/				
Domestic	20,700	1,590	1,630	10,600
Export	16,300	730	993	5,340

p/ Preliminary. r/ Revised.

1/ Data are rounded to no more than three significant digits.

2/ Includes molybdic oxides, metal powder, ammonium molybdate, sodium molybdate, and other.

TABLE 2
U.S. REPORTED PRODUCTION AND SHIPMENTS OF MOLYBDENUM PRODUCTS 1/

(Metric tons, contained molybdenum)

	2001	2002		Year to date
	January-December p/	May	June	
Gross production	40,300	2,500	2,050	13,900
Internal consumption 2/	24,600	1,370	1,070	9,300
Gross shipments	32,600	2,480	2,570	14,000

p/ Preliminary.

1/ Data are rounded to no more than three significant digits.

2/ Includes molybdic oxides, metal powder, ammonium molybdate, sodium molybdate, and other.

TABLE 3
U.S. REPORTED CONSUMPTION, BY END USES, AND CONSUMER STOCKS OF MOLYBDENUM MATERIALS 1/

(Kilograms, contained molybdenum)

End use	Molybdic oxides	Ferro molybdenum 2/	Ammonium and sodium molybdate	Molybdenum scrap	Other	Total
2002, May:						
Steel:						
Carbon	12,200	23,400	--	--	1,810	37,400
High-strength low-alloy	31,100	6,970	--	--	11,300	49,400
Stainless and heat-resisting	171,000 r/	31,000 r/	--	--	8,520	211,000 r/
Full alloy	99,100	155,000	--	--	2,700	257,000
Tool	53,700	3,080 r/	--	--	1,450	58,300 r/
Total	367,000 r/	220,000 r/	--	--	25,800	613,000
Cast irons (gray, malleable, and ductile iron)	W	13,900 r/	--	--	763 r/	14,700 r/
Superalloys	50,800	W	--	(3/)	98,300 r/	149,000 r/
Alloys: (other than steels, cast irons, and superalloys)						
Welding materials (structural and hard-facing)	--	W	--	--	6	6
Other alloys	W	2,540	--	--	6,350 r/	8,890
Mill products made from metal powder 4/	--	--	--	--	72,100	72,100
Cemented carbides and related products 5/	--	--	--	--	13	13
Chemical and ceramic uses:						
Pigments	--	--	W	--	W	W
Catalysts	77,300	--	W	--	W	77,300
Other	--	--	--	--	1,200	1,200
Miscellaneous and unspecified uses:						
Lubricants	--	--	--	--	15,100	15,100
Other	1,730	3,080 r/	75,100	--	14,900 r/	94,900
Grand total	497,000 r/	239,000 r/	75,100	--	235,000 r/	1,050,000
Stocks, May 31, 2002	364,000	146,000 r/	6,470	18,400	860,000 r/	1,390,000 r/

See footnotes at end of table.

TABLE 3
U.S. REPORTED CONSUMPTION, BY END USES, AND CONSUMER STOCKS OF MOLYBDENUM MATERIALS 1/

(Kilograms, contained molybdenum)

End use	Molybdic oxides	Ferro molyb- denum 2/	Ammonium and sodium molybdate	Molyb- denum scrap	Other	Total
2002, June:						
Steel:						
Carbon	11,000	24,600	--	--	W	35,500
High-strength low-alloy	31,100	7,120	--	--	W	38,200
Stainless and heat-resisting	149,000	42,300	--	--	8,520	200,000
Full alloy	97,300	147,000	--	--	2,580	247,000
Tool	59,800	W	--	--	14,600	74,400
Total	348,000	221,000	--	--	25,700	595,000
Cast irons (gray, malleable, and ductile iron)	W	14,400	--	--	W	14,400
Superalloys	39,900	W	--	(3/)	72,300	112,000
Alloys: (other than steels, cast irons, and superalloys)						
Welding materials (structural and hard-facing)	--	W	--	--	6	6
Other alloys	W	2,360	--	--	6,350	8,700
Mill products made from metal powder 4/	--	--	--	--	76,800	76,800
Cemented carbides and related products 5/	--	--	--	--	6	6
Chemical and ceramic uses:						
Pigments	--	--	W	--	W	W
Catalysts	77,300	--	W	--	W	77,300
Other	--		240	--	875	1,110
Miscellaneous and unspecified uses:						
Lubricants	--	--	--	--	14,700	14,700
Other	1,840	17,900	75,300	--	14,900	110,000
Grand total	467,000	256,000	75,600	--	212,000	1,010,000
Stocks, June 30, 2002	369,000	168,000	5,940	45,900	858,000	1,450,000

r/ Revised. W Withheld to avoid disclosing company proprietary data; included in "Other" of the "Miscellaneous and unspecified uses" category. -- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

2/ Includes calcium molybdate.

3/ Included in "Other" of the "Superalloys" category.

4/ Includes ingot, wire, rod, and sheet.

5/ Includes construction, mining, oil and gas, metal working machinery.

TABLE 4
U.S. EXPORTS OF MOLYBDENUM ORES AND CONCENTRATES
(including roasted concentrate), BY COUNTRY 1/

(Kilograms, contained molybdenum)

Country	2001 January- December	2002		
		April	May	Year to date
Australia	147,000	--	--	21,000
Belgium	3,380,000	366,000	157,000	2,270,000
Brazil	30,100	3,670	4,860	17,100
Canada	650,000	122,000	70,300	416,000
Chile	11,800	--	1,210	4,880
China	201,000	32,900	--	32,900
Germany	512,000	--	--	58,700
India	294,000	46	45	114,000
Italy	95,000	22,400	--	47,900
Japan	1,700,000	57,300	83,400	570,000
Korea, Republic of	29,200	4,000	6,080	48,800
Mexico	764,000	1,000	2,400	117,000
Netherlands	13,500,000	540,000	427,000	2,860,000
Spain	63,400	--	2,380	38,300
Sweden	48,200	23,700	--	24,300
United Kingdom	6,210,000	448,000	386,000	2,220,000
Other	187,000	14,100	--	138,000
Total	27,800,000	1,640,000	1,140,000	9,000,000

-- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 5
U.S. EXPORTS OF FERROMOLYBDENUM, BY COUNTRY 1/

(Kilograms, contained molybdenum)

Country	2001	2002		Year to date
	January-December	April	May	
Australia	599	--	--	--
Canada	442,000	50,400	38,800	217,000
China	11,500	--	--	240
Germany	111,000	--	--	--
Korea, Republic of	876	--	--	--
Mexico	50,300	--	17,700	22,800
Netherlands	12,600	--	--	--
Taiwan	--	--	274	274
Total	629,000	50,400	56,800	240,000

-- Zero.

1/ Data are rounded to no more than three significant digits, may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MOLYBDENUM PRODUCTS 1/

(Kilograms, unless otherwise specified)

Material	January-December 2001			May 2002		
	Gross weight	Contained molybdenum	Value (c.i.f.) (thousands)	Gross weight	Contained molybdenum	Value (c.i.f.) (thousands)
Ore and concentrates roasted	9,470,000	6,000,000	\$32,900	--	--	--
Ore and concentrates other	10,000	11,600	73	--	--	--
Molybdenum chemicals:						
Oxides and hydroxides	1,010,000	NA	5,530	89,500	NA	\$494
Molybdates of ammonium	2,740,000	1,610,000	15,100	212,000	123,000	1,030
Molybdates (all others)	318,000	113,000	1,050	54,100	7,240	169
Molybdenum orange	1,120,000	NA	5,180	195,000	NA	707
Ferromolybdenum	5,570,000	3,580,000	21,400	285,000	183,000	1,220
Molybdenum powders	172,000	163,000	3,390	4,360	3,030	93
Molybdenum unwrought	24,700	24,400	267	5,850	5,840	70
Molybdenum waste and scrap	776,000	749,000	7,160	57,300	56,700	574
Molybdenum wire	16,900	NA	1,080	457	NA	31
Molybdenum other	14,400	NA	1,940	--	--	--
Total	21,200,000	12,200,000	95,100	904,000	378,000	4,390

NA Not available. -- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.